Quick Start Guide

Analysis Models - Power BI

Contents

Solution Options

Solution Options

- Analysis Models - Power BI content can be used based on the preference.

Solution Options	High Level Action Items
Publish and Refresh IFS Core Models	1. Download IFS Core Models and corresponding Data Source Definitions from Knowledge base resources. 2. Publish the IFS Core Model into the Golden Workspace via Power BI Desktop. 3. Import the corresponding Data Source Definition via the ***Parquet Data Source*** page in IFS Cloud Web. 4. Use the '**Publish**' option in the ***Analysis Models*** page and Refresh the Model.
Upload and Refresh IFS Core Models	1. Download IFS Core Models and corresponding Data Source Definitions from Knowledge base resources . 2. Import the corresponding Data Source Definition via the ***Parquet Data Source*** page in IFS Cloud Web. 3. Use the '**Upload**' option in the ***Analysis Models*** page and Refresh the Model.
Upload and Refresh Own/ Customized Models	1. Create/customize Models. 2. Use the '**Upload**' option in the ***Analysis Models*** page and Refresh the Model.

Data Configuration

Data Configuration

- To ensure Analysis Models - Power BI functions correctly, Data Configurations must be properly defined.
- The following Basic Data in IFS Cloud is mandatory for most delivered Analysis Models.
  - Reporting Period
  - Reporting Currency Rate Type

- For Financial Models following high-level Data Configurations must be defined.

1. **General Ledger**
   - Accounting Attribute
   - Accounting Structures
   - Reverse Income
   - Company Structure

2. **Group Consolidation**
   - Accounting Attribute for Consolidation
   - Accounting Structure for Consolidation
   - Reverse Income

IFS

Data Configuration Cont.

3. Group Reporting

- Balance Sets
- Accounting Structures
- Code Part Attributes

4. Cash Planning

- Company Structure

- For HCM Models following high-level Data Configurations must be defined.
  - Age Group Class
  - Employee Duration Class
  - Organization Structure

- To read more about Data Configuration, refer to the Technical Documentation for the Analysis Model Data Configuration.

IFS

Pre-Requisites

Pre-Requisites

- Environment setup completed for Analysis Models – Power BI.
  - Refer Technical Documentation for the Setup Guide
- Power BI Desktop installed on the device being used.

Step-by-step guide

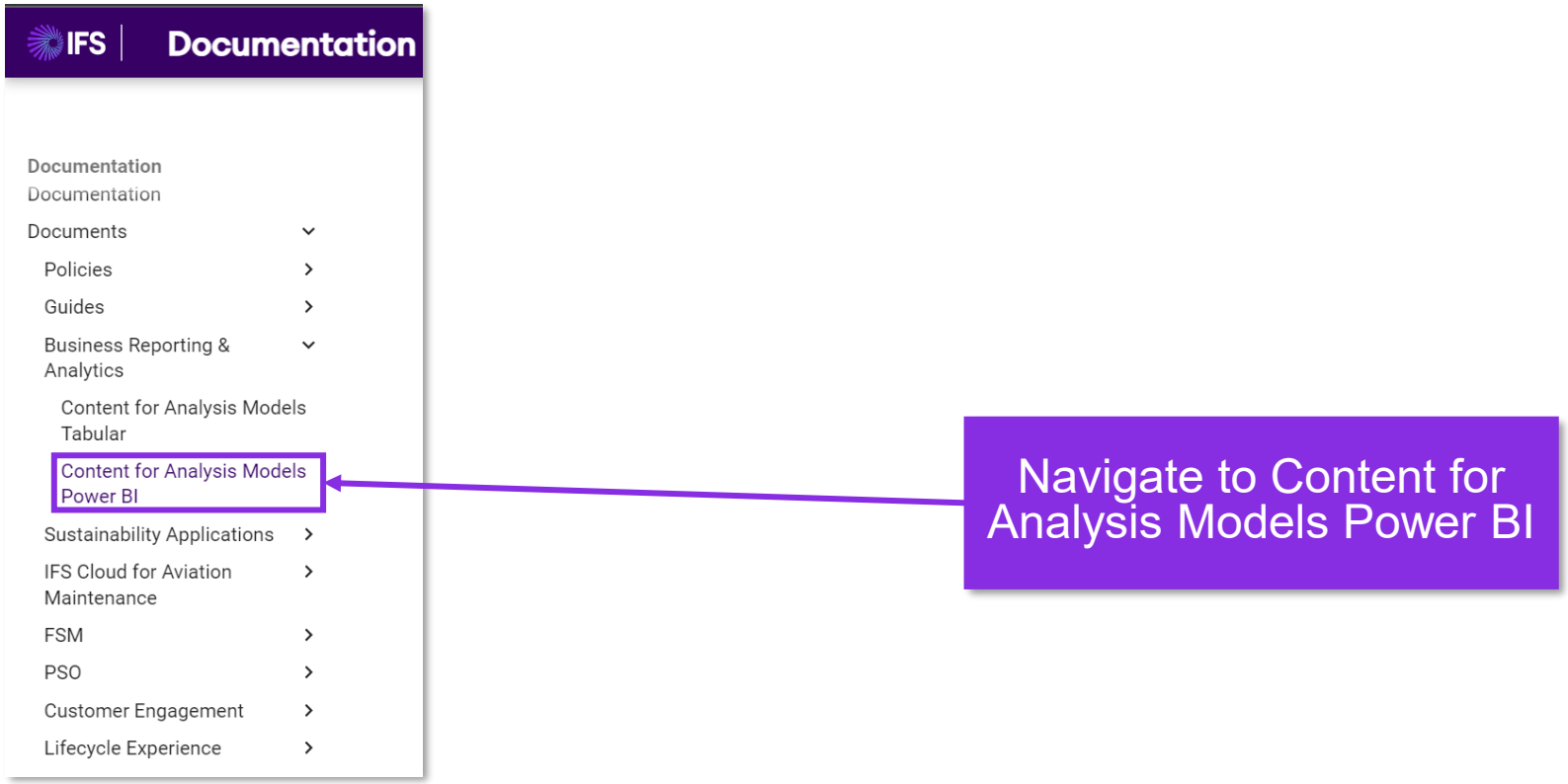
Step-by-step guide

Setting up Golden Workspace

IFS

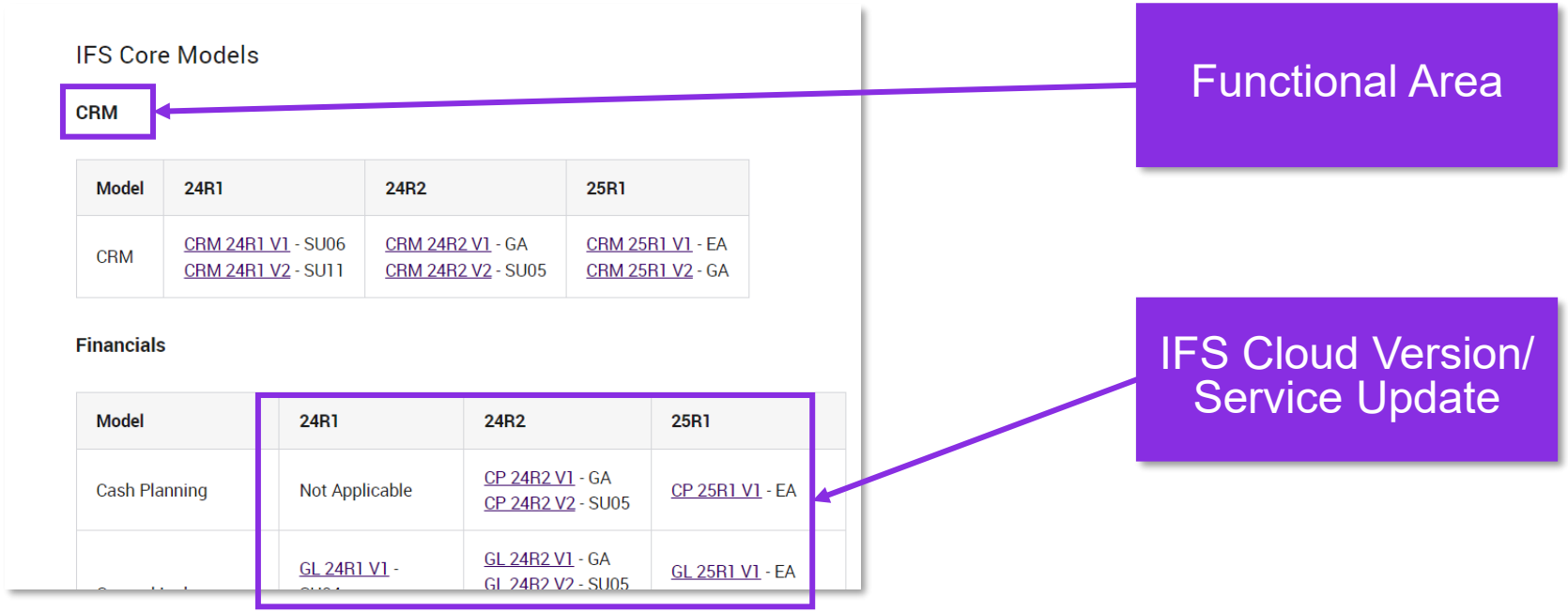
Navigate to Content for Analysis Models Power BI

- Follow the link https://docs.ifs.com/ to IFS Docs and navigate to Content for Analysis Models Power BI page as shown.
  - Documents > Business Reporting & Analytics > Content for Analysis Models Power BI

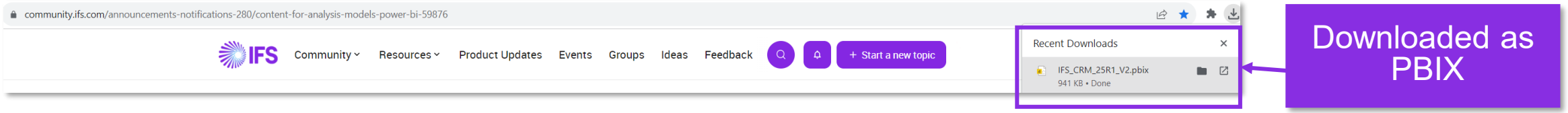


Download Relevant IFS Core model/ PBI Report

Navigate to the Knowledge base resources to view and download all released Models based on the functional area and IFS Version/ Service Update.

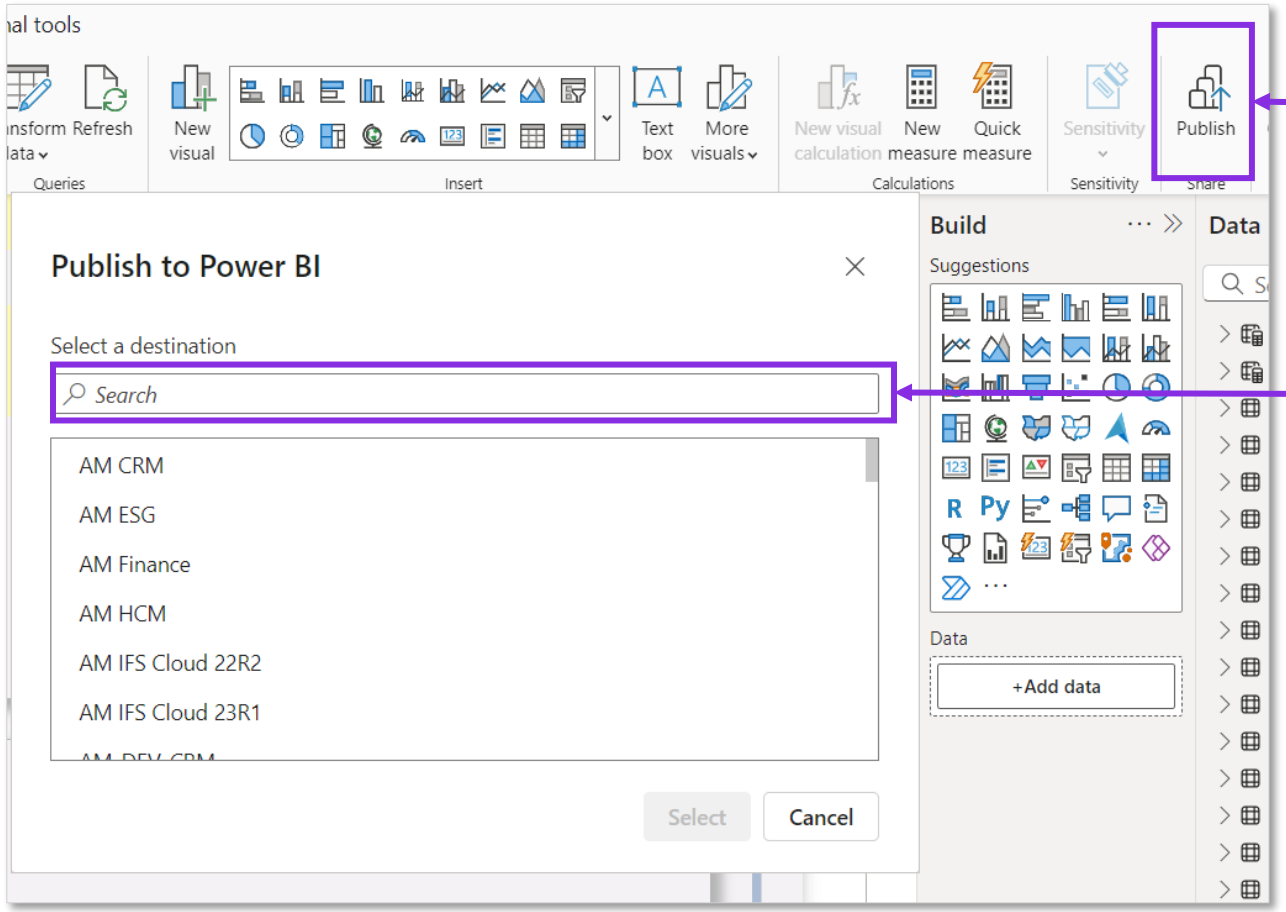


Models are available in the appropriate naming convention, and they will be downloaded in .pbix format.



Publish .PBIX into the Golden Workspace

Open the downloaded file and Publish it to the Golden Workspace.



Select Publish option

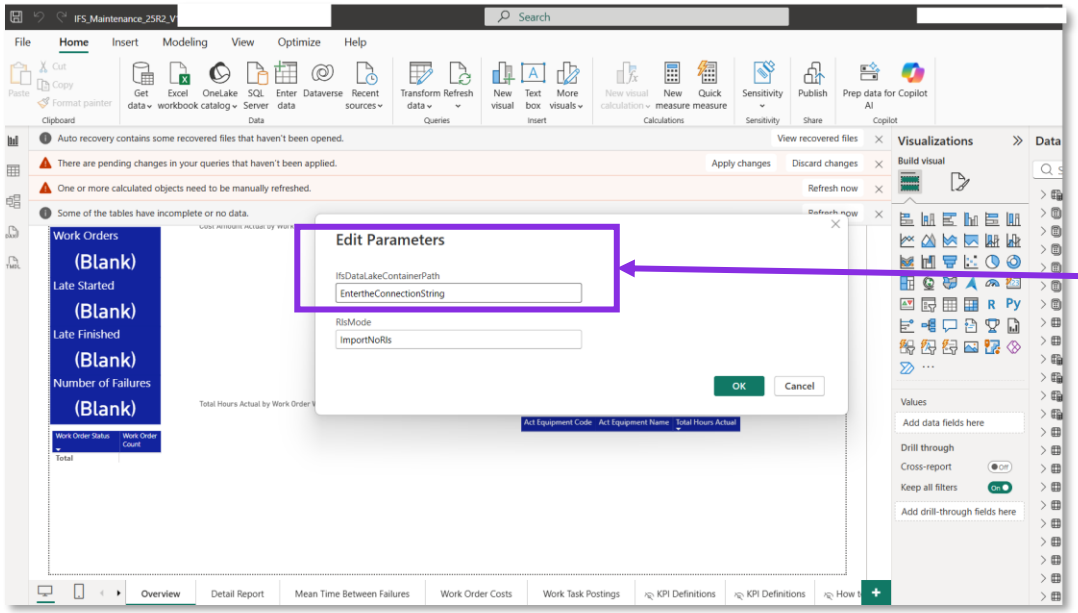
Search Golden Workspace

Step-by-step guide

Refreshing an IFS Core Model via Power BI Desktop

Open the IFS Core Model and set the Parameter value

- Open the downloaded .PBIX file.
- Go to ‘Edit Parameters’ (or ‘Manage Parameters’).
- You will see the default value for the parameter **IfsDataLakeContainerPath** as ‘*EntertheConnectionString*’.
- Remove the default value and add your self hosted Data Lake container Path.
  Container Path format: https://<storage-account-name>.dfs.core.windows.net/<container-name>
  Example: https://exampledatalakename.dfs.core.windows.net/exampledatalakecontainername
- Apply Changes to refresh the Model.



How to obtain the value for IfsDataLakeContainerPath ?

- In the Azure Portal, navigate to the Storage Account Properties and get the Data Lake Storage URL from the Endpoints section.

- If you use a Non-Organizational Account for Data Lake storage access, use the SAS URI generated when whitelisting IPs.
- Read More about SAS Token Creation and IP Whitelisting in IFS Technical Documentation:

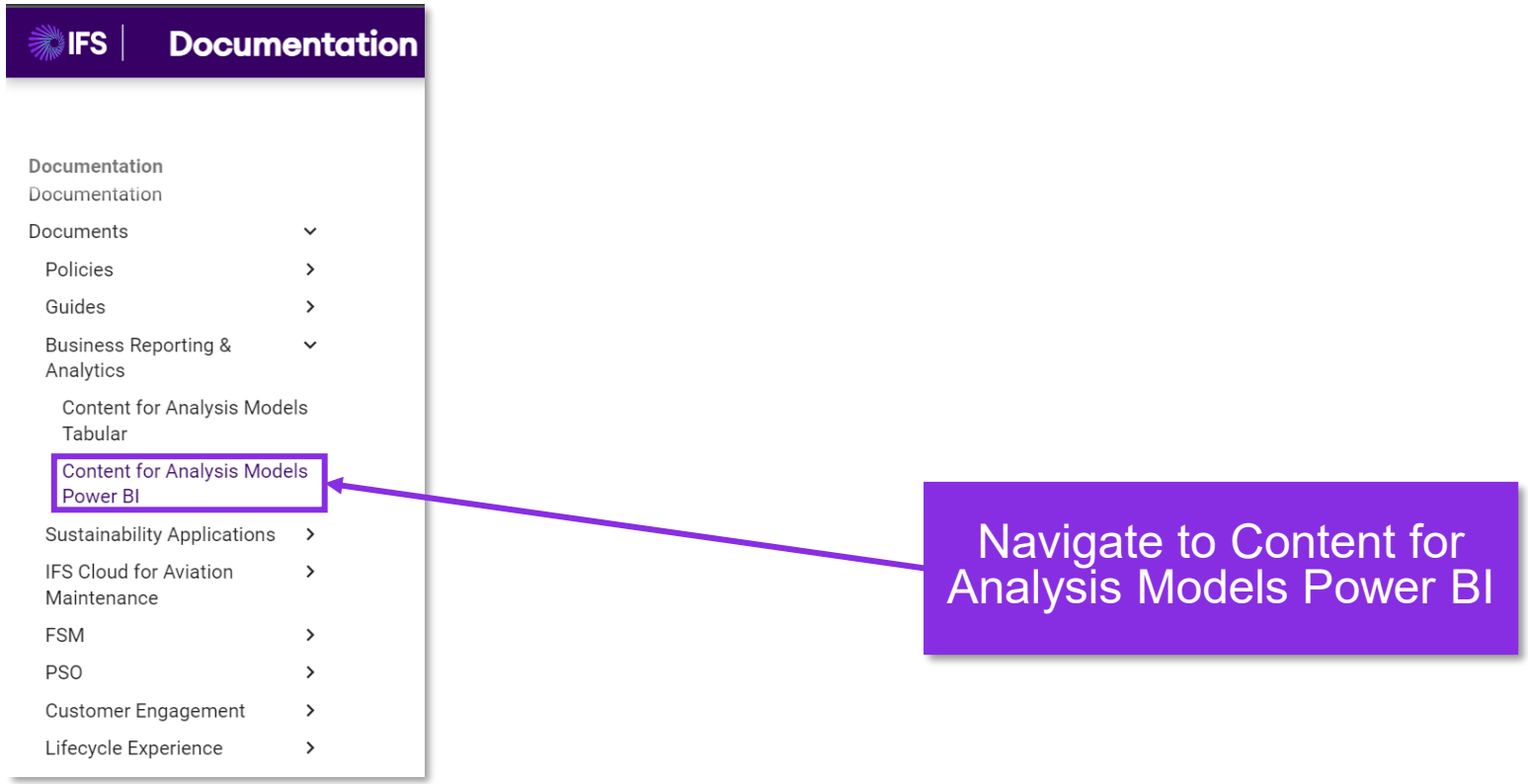
Reporting and Analysis Guide> Analytics> Analysis Models Power BI> SAS Token Generation and IP Whitelisting

Step-by-step guide

Download Data Source Definitions

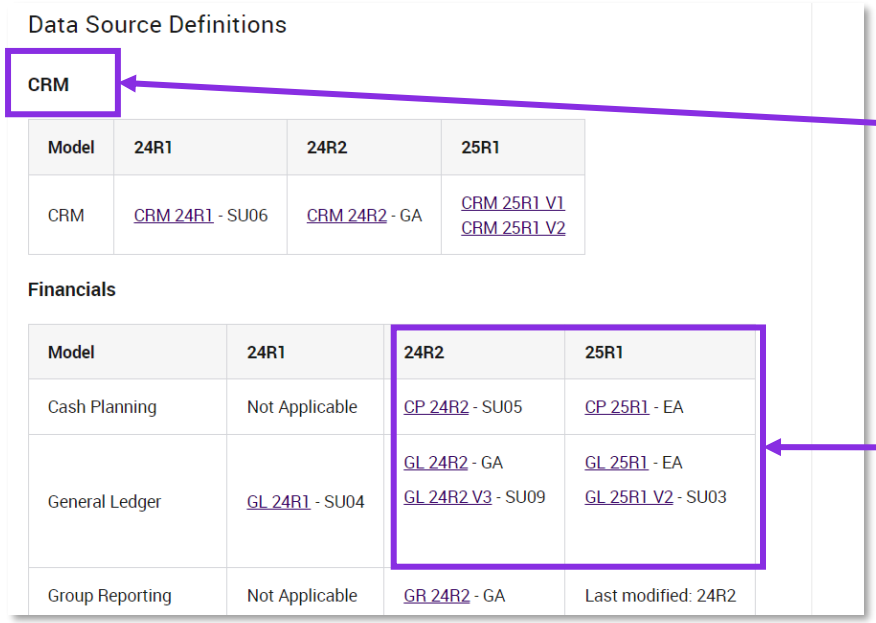
Navigate to Content for Analysis Models Power BI

- Follow the link https://docs.ifs.com/ to IFS Docs and navigate to Content for Analysis Models Power BI page as shown.
  - Documents > Business Reporting & Analytics > Content for Analysis Models Power BI



Download Relevant Data Source Definition

Navigate to the Knowledge base resources to view and download the related Data Source Definitions based on the functional area and IFS Version/ Service Update.



Data Source Definitions

CRM

Model	24R1	24R2	25R1
CRM	CRM 24R1 - SU06	CRM 24R2 - GA	CRM 25R1 V1 CRM 25R1 V2

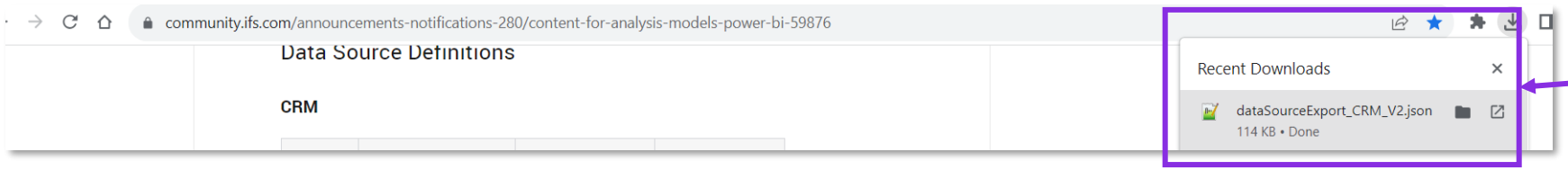
Financials

Model	24R1	24R2	25R1
Cash Planning	Not Applicable	CP 24R2 - SU05	CP 25R1 - EA
General Ledger	GL 24R1 - SU04	GL 24R2 - GA GL 24R2 V3 - SU09	GL 25R1 - EA GL 25R1 V2 - SU03
Group Reporting	Not Applicable	GR 24R2 - GA	Last modified: 24R2

Functional Area

IFS Cloud Version/ Service Update

Download the Data Source definition of the required model (.json file).

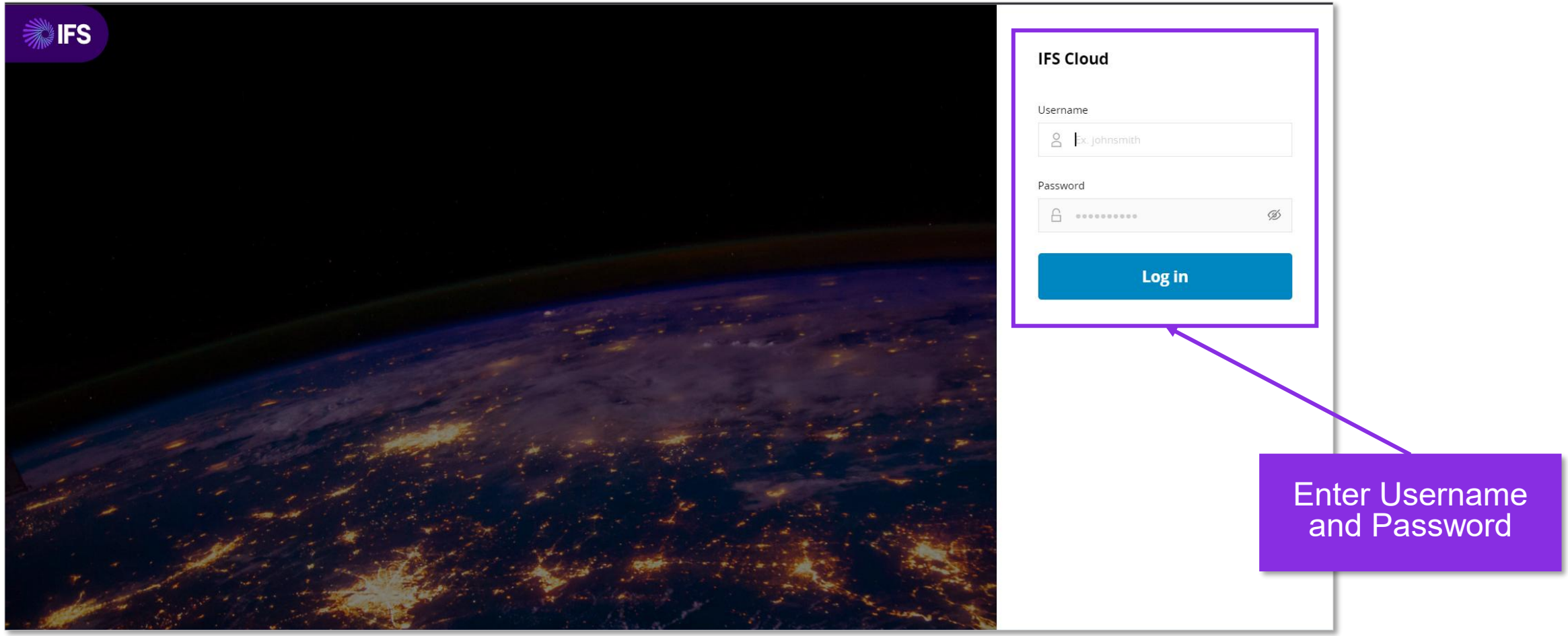


Downloaded as .json

Step-by-step guide

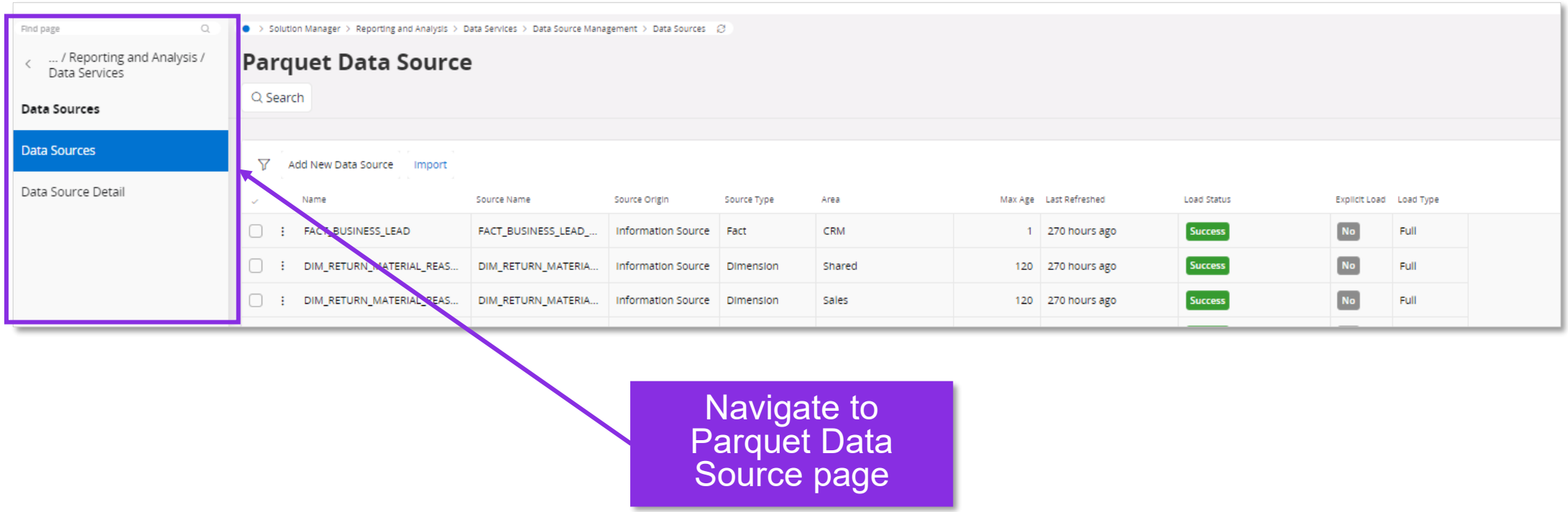
Import Data Sources

Sign into IFS Cloud

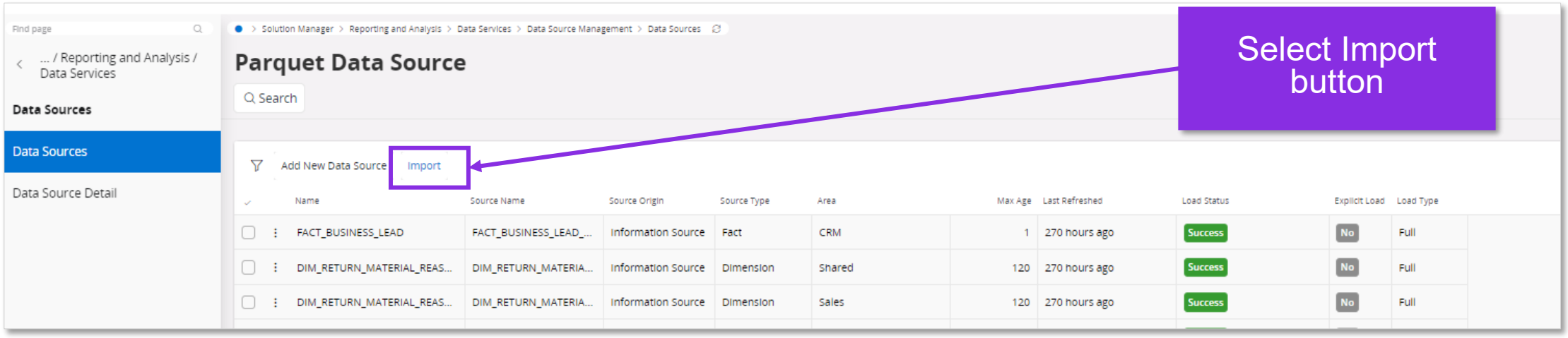


Navigate to Parquet Data Sources Page

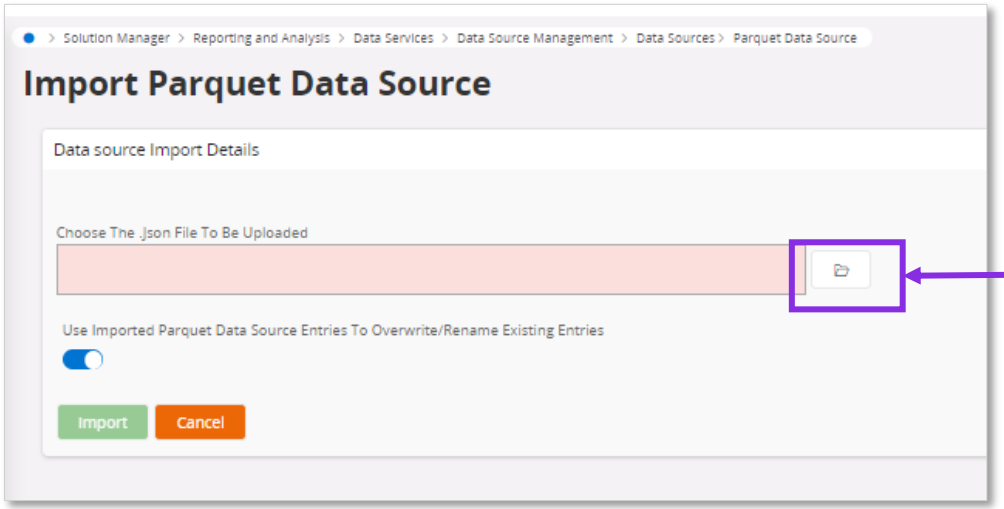
- Follow the navigation steps below.
  - Solution Manager> Reporting and Analysis > Data Services> Data Source Management> Data Sources



Open Import Parquet Data Source Page

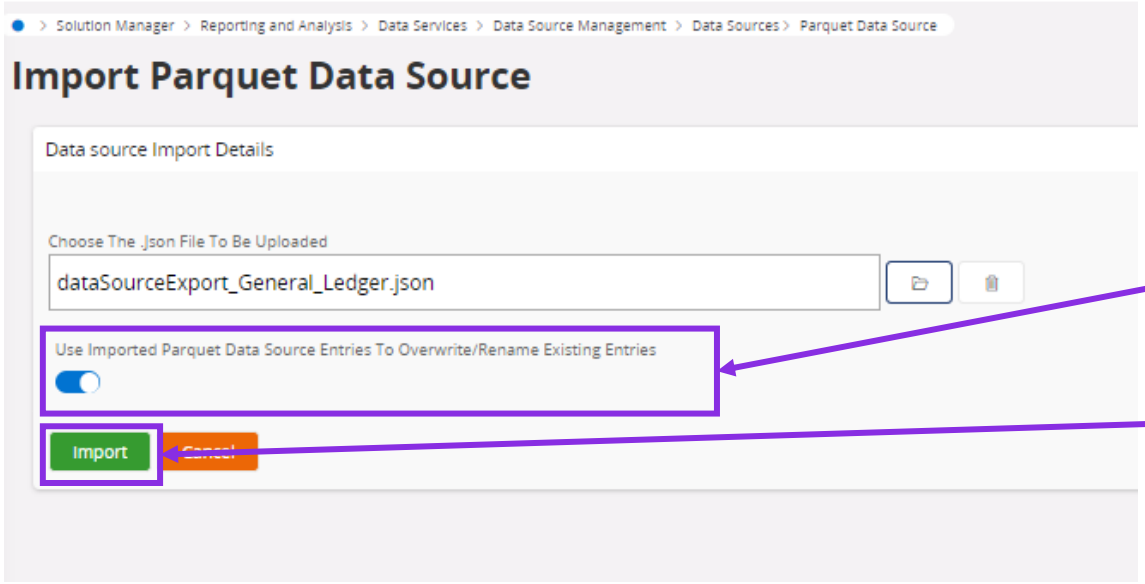


Select Import button



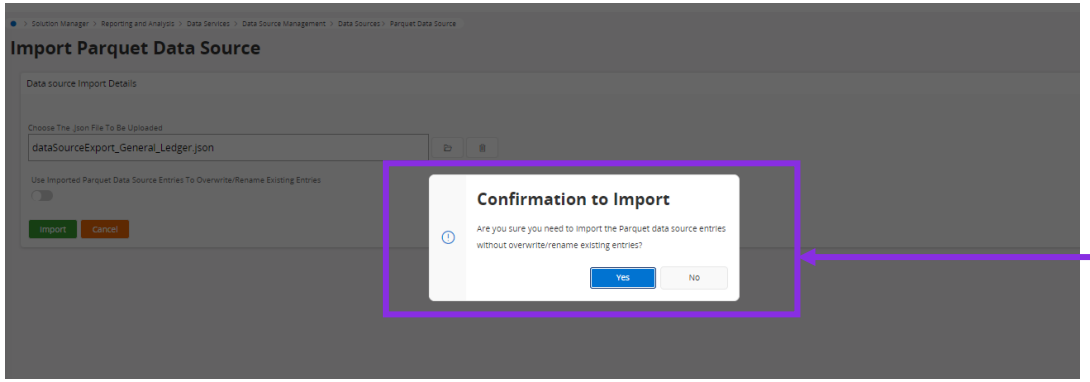
Select the icon to upload the .json file

Import the Data Source Definition



Switch toggle based on the requirement

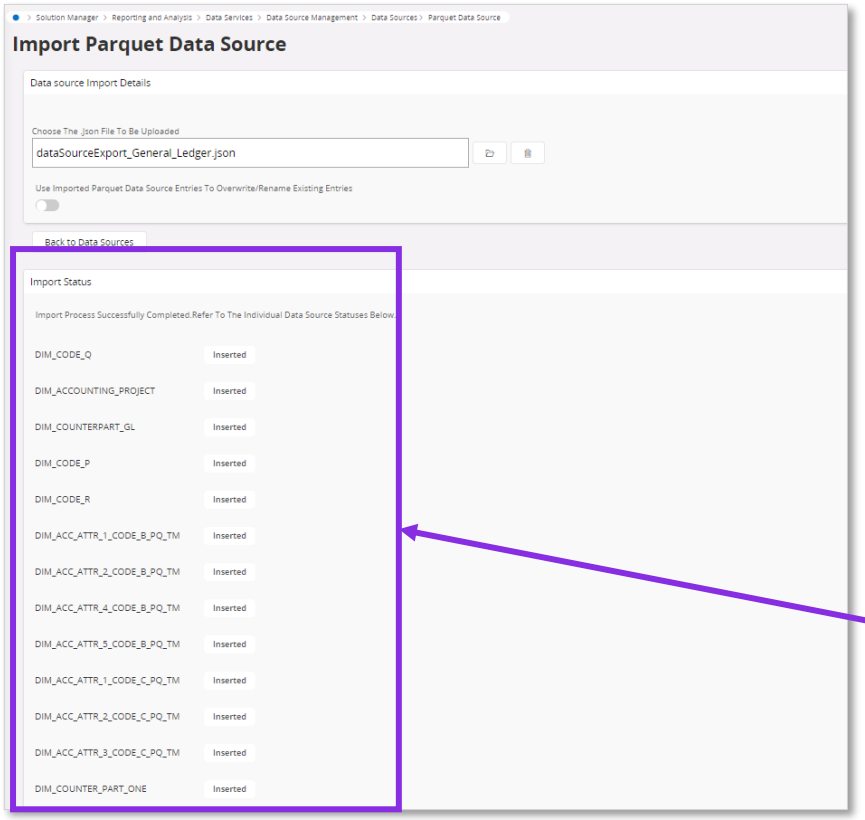
Select Import button



Confirm

View Import Status

Import status is updated against each Data Source accordingly.



View Import status

Import Status	Description
NoAction	Imported successfully, if there are existing entries(same Data Source ID), it is not updated
Updated	Imported successfully, if there are existing entries(same Data Source ID), it is updated
Inserted	Imported all the new entries successfully
Error	Import Errors

Use **Back to Data Sources** button to return to Parquet Data Source page.

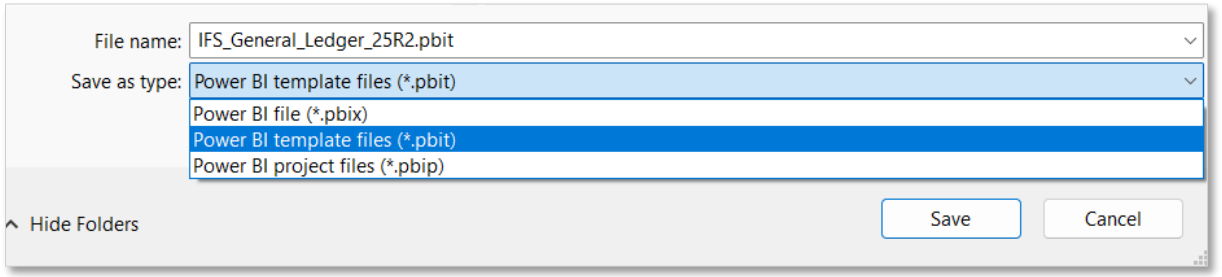
Step-by step guide

Prepare the Customized Power BI File for Upload

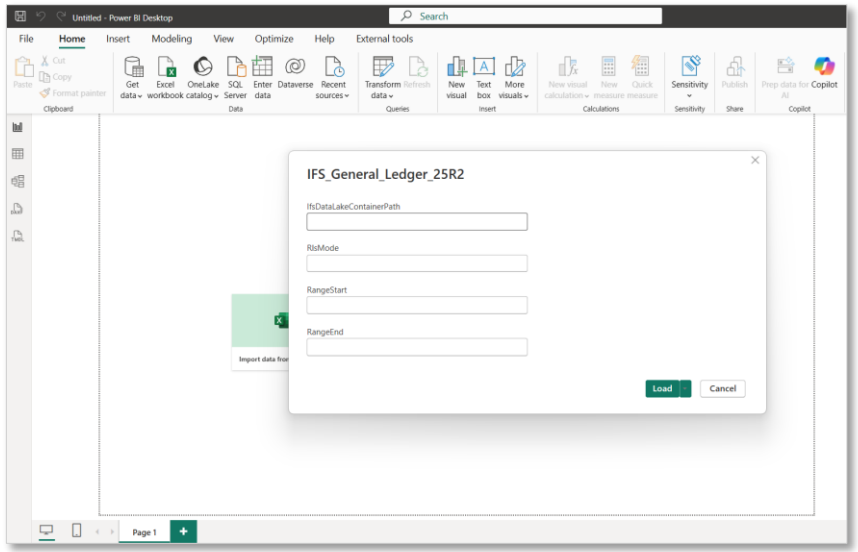
Saving a customized model

The following slides walk through the steps to save a customized Power BI report. It explains how to set the required parameters, resolve any loading warnings, and prepare the file for upload as a new Analysis Model.

Step 1: Save the file in Power BI template (.pbit) format.

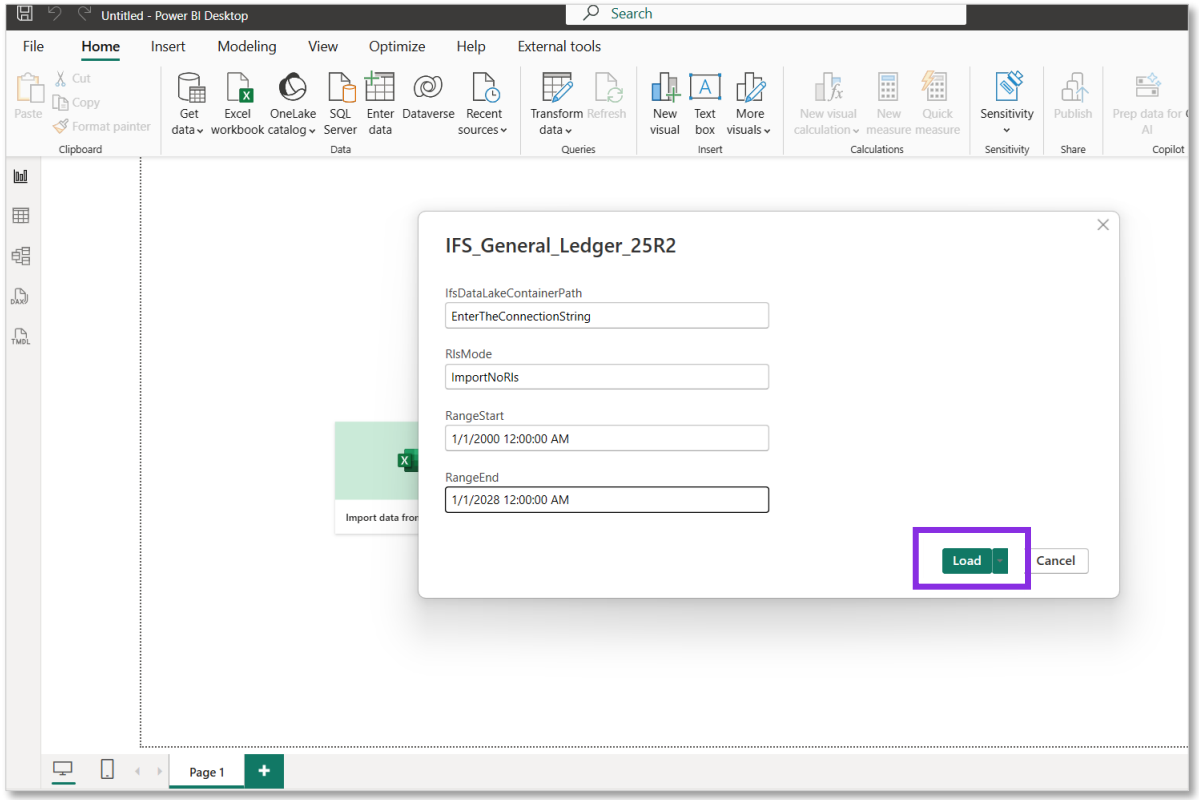


Step 2: Open the .pbit file and wait for the parameter dialog to appear.



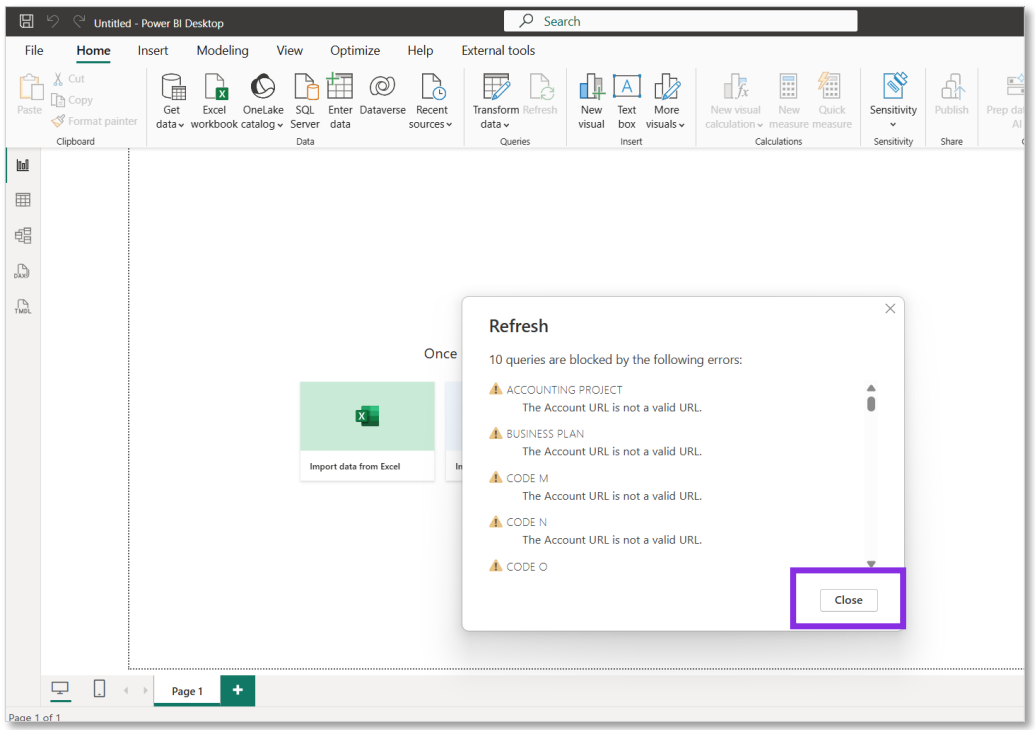
Step 3: Enter the required parameter values and click Load to load the model.

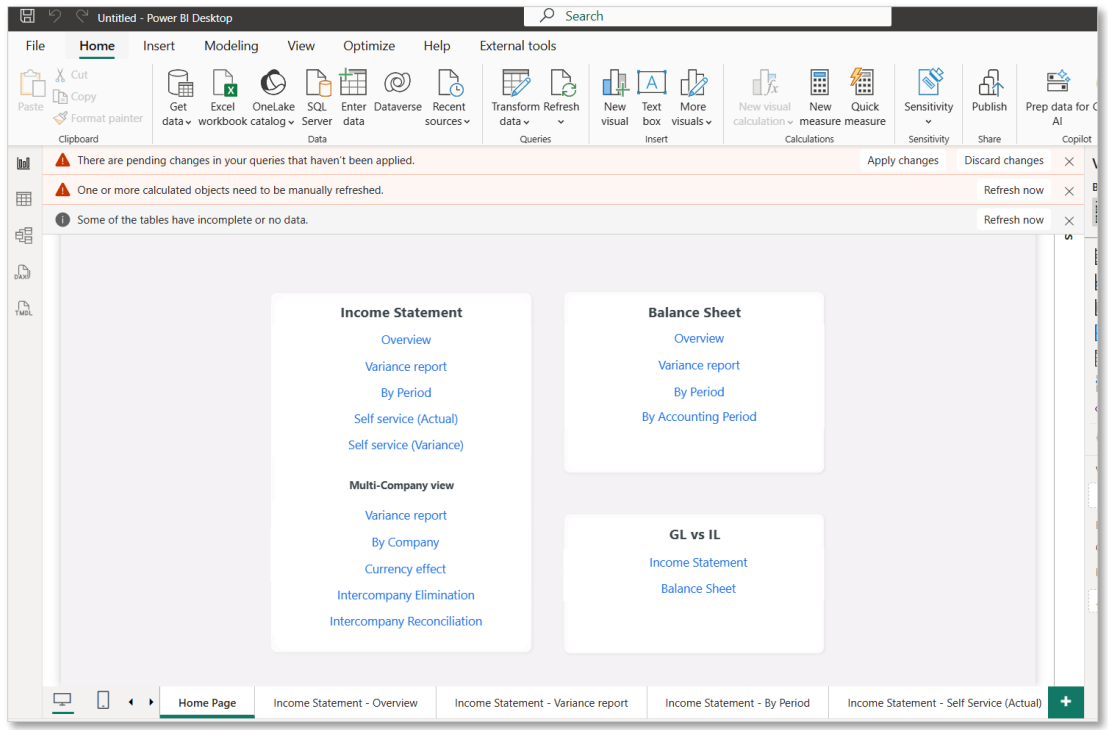
Configure each parameter by adding a sample placeholder value as shown in the below image.



Parameter Name	Example placeholder values	Available in
IfsDataLakeContainerPath	EntertheConnectionString	All Models
RlsMode	ImportNoRls	All Models
RangeStart	1/1/2000 12:00:00 AM	Incremental Loading Models
RangeEnd	1/1/2028 12:00:00 AM	Incremental Loading Models

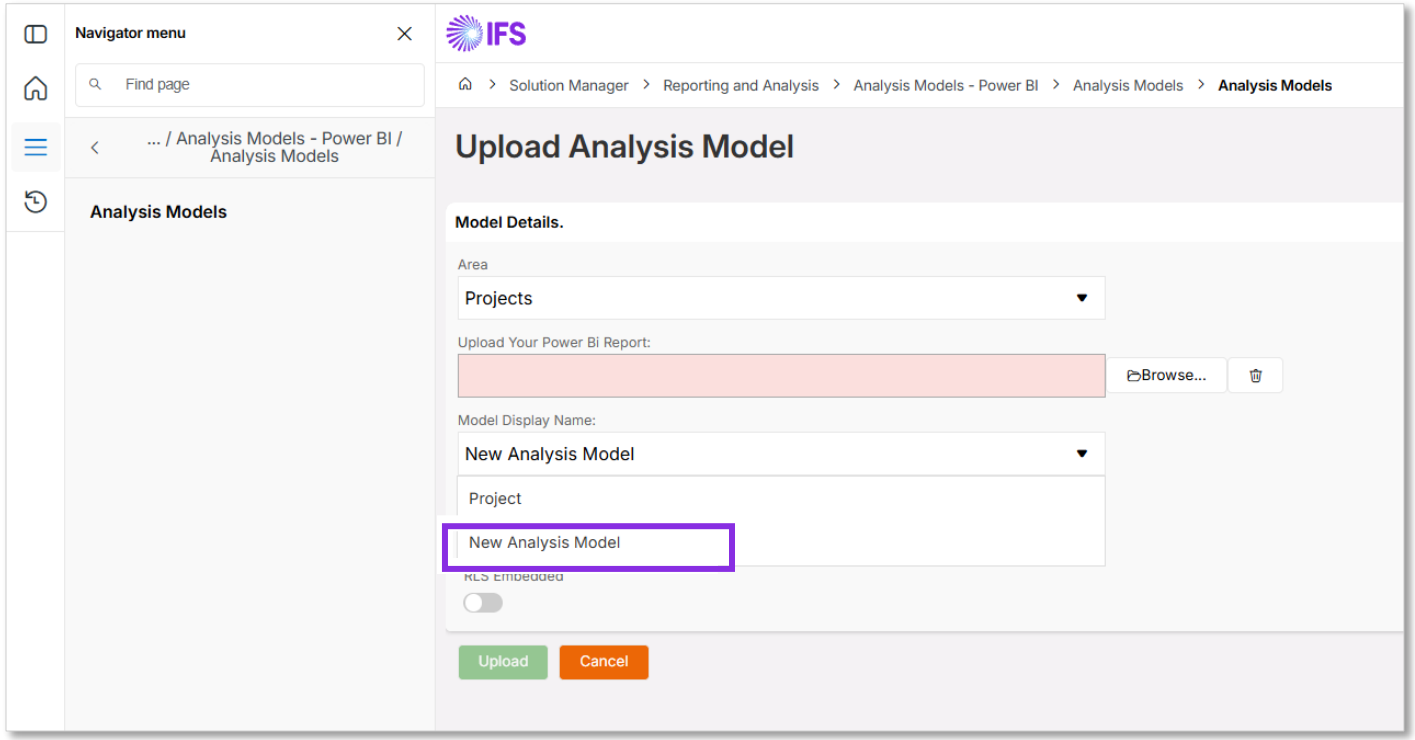
Step 4: Once the file has loaded, you may see loading errors similar to those shown below. Click Close to dismiss the dialog and wait for the report to finish loading.





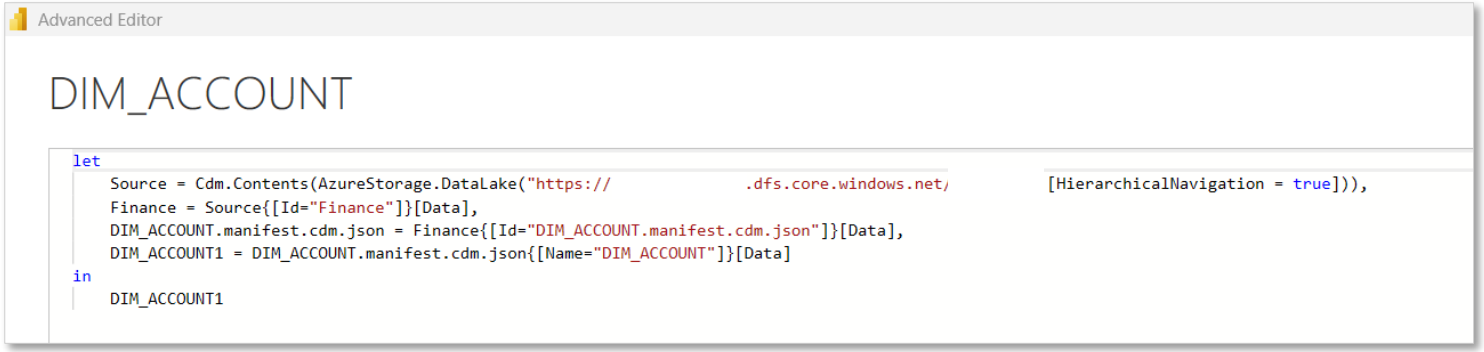
Upload the Customized Model

- **Step 5:** Save the file in Power BI (.pbix) format.
- **Step 6:** Navigate to the ***Analysis Models*** page in IFS Cloud Web and use the **Upload** option to upload the file as a **New Analysis Model**, then **Refresh** the model.
- **Step 7:** Verify the report in the Power BI Service by navigating to the relevant target workspace.



Update the M-Query to Use Parameters

When a new Analysis Data Source is added to a model, the m-query must be updated to reference the model parameters. By default, once a Data Source is connected, the m-query stores the hardcoded URI of the data lake where the source resides.



Replace the hardcoded URI with the model parameter that stores this value. The parameter name is **IfsDataLakeContainerPath**.